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The following paper was presented for publication:

"Description of six new species of Fresh Water Shells." By Isaac Lea.

June 22d.

Dr. Ruschenberger, Vice-President, in the Chair.

Twenty-three members present.

The death of Dr. Charles D. Meigs was announced.

The following paper was presented for publication:

"Notice of certain obscurely known species of American Birds, based on specimens in the museum of the Smithsonian Institution." By Robt. Ridgway.

June 29th.

The President, Dr. Hays, in the Chair.

Twenty-five members present.

The report of the Biological and Microscopical Section was presented and referred to the Publication Committee.

On permission being granted, Mr. Warner spoke upon the mathematical representation of organic forms. Such limitations, he said, might serve to narrow the field of research into the physical causes of organic forms, and perhaps furnish the suggestion of a rational theory of these causes. If no other advantage were derivable from imitations of this kind, they might, he thought, be useful for description and classification.

He exhibited a representation of the longitudinal section of an egg by a curve which he called the hyper-ellipse, and of the section of an embryo by another curve which he termed a deformed lemniscate. Of the egg curve, he said that it very closely resembled an ideal section of an egg taken from a standard modern work. Of the curve representing the embryo he said that it not improbably marked the boundary of matter lying within it, in a different state of temperature, density, or tension from the matter lying without. These representations were verified by the members present. The speaker expressed the intention of making these representations the subject of a future paper, in which he would give drawings and formulæ.

The following gentlemen were elected members:

Dr. N. R. Bradner, U. S. N.; Charles B. Nancrede, M. D., and Harry Emlen.

Alexander Carte, of Dublin, was elected a correspondent.

On favorable report of the Committees, the following papers were ordered to be published:

Descriptions of six new species of FRESH WATER SHELLS.

BY ISAAC LEA.

Unio Macnielii.—Testa sulcata, oblonga, valde inæquilaterali, antice subrotunda, postice obtuse biangulata; valvulis crassiusculis, antice crassioribus; natibus prominulis; epidermide fusca vel luteola, postice viridi radiata; den-